Proceedings of the Workshop on Discrete Tomography: Algorithms and Applications (11–13 October 2000, Certosa di Pontignano, Italy)

A. Del Lungo, P. Gronchi and G.T. Herman
Preface 1

E. Barcucci, A. Del Lungo, M. Nivat and R. Pinzani
X-rays characterizing some classes of discrete sets 3

E. Balogh, A. Kuba, C. Dévényi and A. Del Lungo
Comparison of algorithms for reconstructing hv-convex discrete sets 23

S. Brunetti, A. Del Lungo, F. Del Ristoro, A. Kuba and M. Nivat
Reconstruction of 4- and 8-connected convex discrete sets from row and column projections. 37

S. Brunetti, A. Del Lungo and Y. Gerard
On the computational complexity of reconstructing three-dimensional lattice sets from their two-dimensional X-rays. 59

E. Vardi, G.T. Herman and T.Y. Kong
Speeding up stochastic reconstructions of binary images from limited projection directions 75

A.E. Yagle
A convergent composite mapping Fourier domain iterative algorithm for 3-D discrete tomography 91

Y. Censor
Binary steering in discrete tomography reconstruction with sequential and simultaneous iterative algorithms. 111

I. Svalbe and D. van der Spek
Reconstruction of tomographic images using analog projections and the digital Radon transform 125

L. Hajdu and R. Tijdeman
An algorithm for discrete tomography 147

A. Kuba and M. Nivat
Reconstruction of discrete sets with absorption. 171

Table of Contents continues

Table of Contents continued

J. Santos, L.C. Longoria and J.C. Palacios
Detection of flaws in construction columns using 3D reconstruction and manipulation 195

V. Di Gesù and C. Valenti
Two-view "cylindrical decomposition" of binary images 205

Author index to volume 339 221

CONTENTS direct

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: **www.elsevier.com/locate/contentsdirect**